FIMAL · CONCEPT 350 PLUS

Fimal Concept 350 Plus beam saw

Supplier: PROMACH

Beam saw with full-length pressure beam, Ø 300–350 mm main blade tilting up to 46° and programmable rear stop, in versions with 2600, 3200 or 3800 mm cutting length. Automatic panel detection avoids empty runs.



Fimal Concept 350 Plus

2600–3800 mm	100 mm	0–46°	1.5–40 m/min
CUTTING LENGTH	CUTTING HEIGHT AT 90°	BLADE TILT	SAW CARRIAGE SPEED

/ APPLICATIONS

- Sizing panels in cutting lengths up to 3800 mm
- Tilted cuts up to 46°
- Repeated parallel cuts with the programmable rear stop
- Trimming rough planks and diagonal cuts (with the optional laser)

/ MATERIALS

- Panels, including non-flat or thin panels
- Rough planks (trimming)

/ MAIN FEATURES

1. Supporting structure machined on a CNC machine in a single setup, for flatness and squareness
2. Pressure beam over the full cutting length, which also holds non-flat or thin panels
3. Main blade Ø 300–350 mm, tilting 0–46° under PLC control, with decimal digital display
4. Panel detection: the blade is positioned near the panel end, avoiding empty runs
5. Scoring depth set by a bushing with decimal numerical counter; three-position selector
6. Motorised, programmable rear stop with two rotating stops 420 mm apart
7. Telescopic squaring fence up to 2500 mm, two mechanical stops, one of which is a flip stop
8. PLC on a mobile pedestal: 250 programmes, up to 3 axes, hold-to-run cycle start
9. Removable support table 800 x 200 mm; saw carriage speed 1.5–40 m/min; 5 kW main motor

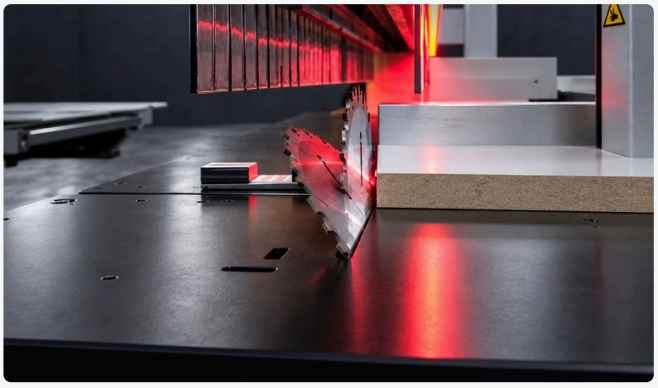
/ OPTIONS

- 8" colour touch screen with USB port for importing cutting programmes
- Third motorised stop, stroke 650 mm, for panels over 1500 mm
- Electronic Multi-Stop fence with 4 stops, opening up to 1300 mm
- Squaring fence 3400 mm; digital displays; removable table for angled cuts ±50°
- Cutting line laser; cutting optimisation software; label printer

/ DETAILS



Pressure beam over the full cutting length and control pedestal with touch screen



Main saw blade tilted next to the panel under the pressure beam

The electrical supply, the total installed power and the supplied configuration are confirmed in the technical quotation.

/ TECHNICAL DATA

Property	Value
Cutting length	2600 / 3200 / 3800 mm (three versions)
Main saw blade: maximum diameter / bore	Ø 350 / Ø 30 mm; Ø 300 mm blade also permitted
Cutting height at 90° / 45°	100 / 67 mm (blade Ø 350 mm); 75 / 45 mm (blade Ø 300 mm)
Main saw blade tilt	0–46°, PLC-controlled, decimal digital display
Main saw spindle speed	4000 rpm
Main motor power	5 kW (7.5 hp)
Scoring system	scoring function selected on the control panel: cutting only, scoring and cutting, scoring only; groove or scoring depth set by rotating a bushing with decimal numerical counter
Saw carriage feed speed	1.5–40 m/min, adjustable via inverter from a potentiometer
Pressure beam	full cutting length; also holds non-flat and thin panels
Panel positioning system	motorised, programmable rear stop with two rotating stops 420 mm apart, selected automatically for the programmed dimension; panel detection determines the panel width and positions the blade near the panel end, avoiding empty runs; optional: third motorised stop (stroke 650 mm) for panels over 1500 mm, electronic Multi-Stop fence with 4 stops (total centre distance 2000 mm, opening up to 1300 mm, 26 mm stops for 2 stacked panels)
Squaring fence	telescopic, up to 2500 mm (3400 mm on request), two mechanical stops, one of which is a flip stop; optional: digital display; optional removable table for angled cuts ±50° with extension up to 2400 mm and digital displays for angle and stops
Support tables	removable support table 800 x 200 mm with quick release, front or rear; optional: additional tables, parallel-cut device with single stop, mechanical or digital reading (opening up to 900 mm)
Cutting line laser	optional: laser projecting the cutting line, for trimming rough planks and diagonal cuts
Control system and programme memory	PLC on a mobile control pedestal; memory for 250 programmes; up to 3 axes with independent displays (rear stop, blade tilt, optional blade projection); three-position selector; cycle start by hold-to-run control; optional: 8" colour touch screen with USB port for importing cutting programmes
Cutting optimisation and labelling	optional: office PC cutting optimisation software (up to 135 or 500 parts per panel; USB key not included; requires the 8" touch screen); thermal transfer label printer (104 mm printing width, 203 dpi) with optimisation software; barcode module on request
Dust extraction connections	lower Ø 120 mm / upper Ø 100 mm
Required extraction airflow / air velocity	1800 m³/h / 25 m/s
Compressed air requirements	7 bar / 85 l/h
Noise emission	81.8–91.6 dB (ISO 7960, Ø 300 mm blade, Z 60)
Overall dimensions (L × W × H)	2600: 3670 x 2840 x 1530 mm; 3200: 4270 x 2840 x 1530 mm; 3800: 4870 x 2840 x 1530 mm
Net weight	2600: 1210 kg; 3200: 1360 kg; 3800: 1510 kg

PROMACH MACHINERY

PROMACH LTD
Str. Kolednitsa 2, et. 1, 7002 Ruse, Bulgaria
VAT BG208556296

BULGARIA +359 87 6832151

ROMANIA +40 755 023 024

promach-machinery.com

Technical data may be updated without prior notice. Images are for illustration.